ABSTRACT

The software on the host machine examines a pixel, either alone or in relation to adjacent pixels. Based on the image data contained in the pixel or group of pixels, a multi-bit value is generated that can be used by the printing device to easily reproduce the necessary detail of the original pixel. The multi-bit value also contains print engine control parameters to handle items such as toner miser mode, toner explosion, edge roll off, etc. The multi-bit value can be generated algorithmically by using a lookup table or by some combination of these methods.